SHITETSOI, I.

7600. SMTETSOT, 7. -- Shornik tipovykh normruskhoda osnovnykh i vspomogatel'nkyh materialov dlya pemonta obuvi. Riga, Lat'mestpromproyekt, 1955. 62s. 14x20sm.(K-vo mestnoyitoplivnoy prom-sti Latv. SSP) 500ekz. 3. ts.-V Vyp. Dannykhavt: V Shevetsov.-- (55-4603) 695.31.03/685.31.04) 658.54

SO: Knizhmaya Letopis', Vol. 7, 1955

SHVETSOV, V.; NESMELOV, V.; LEBEDEVA, N.

in the contract of the contrac

Recovery of dichloroethane vapors in a foam layer. Mias.ind.SSSR 32 no.6:54-56 '61. (MIRA 15:2)

1. Kazanskiy khimiko-tekhnologicheskiy institut im. Kirova. (Ethane)

SHVETSOV, V., kand.tekhn.mauk

Fat extraction from bones. Mias.ind.SSSR 33 no.2:51-52 162.

(Meat industry-By-products)

37681 S/198/62/008/003/001/008 D407/D301

1. 7000 AUTHORS: Kosmodamians'kyy, O.S., Mehlins'kyy, V.V., and Shvetsov, V.A., (Saratov)

TITLE:

Straining an anisotropic plate having a curvilinear

hole reinforced by a rigid ring

Prykladna mekhanika, v. 8, no, 3, 1962, 237 - 247 PERIODICAL:

TEXT: The stressed state of an anisotropic plate with a curvilinear (elliptic) hole is determined by the small-parameter method, proposed by S.G. Lekhnits'kiy (Ref. 1: Anizotrophye plastinki (Anisotrosed by S.G. Lexhilts kly (Ref. 1: Antizotrophye plasting (Antisotropic Plates), Gostekhizdat, 1957). The function which effects a conformal mapping of the interior of the unit circle onto the exterior of the contour of the anisotropic plate, has 6 terms, viz.:

$$z = \omega(5) = a[\frac{1+c}{2}5^{-1} + \frac{1-c}{2}5 + \epsilon \sum_{k=2}^{5} a_k 5^k];$$
 (1.2)

Card 1/3

S/198/62/008/003/001/008 D407/D301

Straining an anisotropic plate ...

(c = b/a; a, b are axes). This makes it possible to obtain formulas for the stressed state of a plate with many holes. At infinity, the plate is subjected to uniformly distributed stresses p, which are parallel to the x-axis, and to stresses q, parallel to the y-axis. It is assumed that the deformations are small, that body forces are absent and that Hooke's generalized law applies. It is required to determine the stresses state of the plate in the neighborhood of the contour. The plate is assumed as orthotropic. The stresses σ_{χ} , σ_y , τ_{xy} are expressed by the functions $\Phi_1(z_1)$ and $\Phi_2(z_2)$, where z

is a complex variable. The functions of are expanded in series in the small parameter 1, and terms, up to second-order, are retained. The boundary conditions are set up. After calculations, one obtains working formulas for the stresses. In the case of an isotropic plate, the problem under consideration has an exact solution. As an te, the problem under consideration has an exact solution. As an example, a plate with a triangular hole is considered. The mapping function is obtained by means of expansions in terms of the Christoffel-Schwartz integral. The authors calculated the stresses which arise in the neighborhood of such holes. The results of the calculation are given in the form of graphs and tables. These lead to the Card 2/3

Straining an anisotropic plate ...

\$/198/62/008/003/001/008 D407/D301

following conclusions: 1) The presence of a rigid ring reduces sharply the stress concentration near the hole, (as compared to the case where the ring is absent). 2) The stress concentration in an anisotropic plate with a hole, reinforced by a ring, is lower than in an isotropic plate. If the hole is not reinforced, then the converse is true. 3) In the case of a veneer plate with a reinforced hole, the stress concentration is greater if $E_y = E_{max}$ with the strain in the direction of the x-axis, and smaller if $E_y = E_{max}$ with the strain along the y-axis. If the hole is not reinforced by a ring, then the converse is true. There are 5 figures, 4 tables and 6 Soviet-bloc references.

ASSOCIATION: Saratovs kyy derzhavnyy universytet (Saratov State

Server and Acces on the Server of the line of the control of the c

University)

SUBMITTED: November 17, 1961

Card 3/3

SHVETSOW, V.A.

Investigating the heat and mass transfer of chip packing. Trudy
(XIFA 15:5)

(Packed towers) (Mass transfer) (Heat—Transmission)

5/138/59/000/012/002/006

AUTHORS: Shvetsov, V. A., Pisarenko, A. P., Novikov, A. S.

TITLE: An Investigation Into the Properties of Filled Nitrile Rubbers.

Communication 1. The Properties of Filled Silicate-Nitrile

Rubbers 15

PERIODICAL: Kauchuk i Rezina, 1959, No. 12, pp. 4-8

TEXT: At present two types of powdered silica gel are manufactured in the Soviet Union, viz. soft and hard silica gel, imparting different properties to the rubber. It is further stated that powdered silica gel is irreplaceable as an accelerator in the production of colored rubber based on synthetic rubbers with high mechanical indices and has many advantages over the carbon blacks. One of the most popular types of silica gel is aerosil, which is just as active as any carbon black. It is pointed out that the Soviet rubber industry lacks sufficient quantities of the silica gel accelerators and the available types have some serious disadvantages due to the backward production methods used. Their quality is not homogeneous. The necessity of producing filled rubbers based on synthetic raw material by some other means is pointed out. A short survey is given

Card 1/4

S/138/59/000/012/002/006

An Investigation Into the Properties of Filled Nitrile Rubbers. Communication 1. The Properties of Filled Silicate-Nitrile Rubbers

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of the methods recently used for this purpose. The All-Union Scientific Research Institute of Film Materials and Artificial Leather (VNIIPIK) developed in 1951-1953 a method for the production of filled butadienestyrene rubbers, using silicates of various metals obtained in the latex as fillers. The CKH-18 (SKN-18), CKH-26 (SKN-26) and CKH-40 (SKN-40) type butadiene-nitrile rubbers are used in the rubber industry for the production of oil-resistant rubber. The authors were particularly interested in determining the possibilities of producing oil-resistant and heatresistant butadiene-nitrile rubbers, filled with silicate fillers during the latex stage. These rubbers were named silicate-nitrile rubbers. It was shown that the strength of the rubber increases considerably when the filler is introduced in the latex stage, and much less so, when introduced on the rollers. This is true even for small quantities of the filler, such as 20 weight parts of filler to 100 weight parts of the rubber. For greater amounts of filler, e.g. 60 weight parts of filler to 100 weight parts of rubber the relative elongation is 575-674%. The high structuralizing properties of the silicate fillers obtained in the latex can be seen from the hardness determination according to Defoe. The mechanical processing of the

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s/138/59/000/012/002/006

An Investigation Into the Froperties of Filled Nitrile Rubbers.
Communication 1. The Properties of Filled Silicate-Nitrile Rubbers

silicate-nitrile rubbers presents little difficulty in spite of the high values of hardness according to Defoe due to the weakening of the secondary rubber-filler bonds and due to an increase in the fluidity of the mixture caused by an increase in the mixing temperature. The rupture-, wear-resistance and the elasticity of the rubbers filled in the latex is higher than those filled on the rollers. The former also have a better roadability. The thermal-resistance is the same. Tables 2 and 3 give the comparative figures of the various properties. At elevated temperatures the rubbers filled in the latex retain their strength better than those filled on the rollers, they have better resistance to thermal aging. The aging was carried out at 100, 110, 120 and 130°C lasting from 12 hours to 10 days. The high resistance to aging of the vulcanizates is explained by the active filler blocking the double bonds of the hydrocarbon rubber, which decreases the reactivity of the rubbers, inhibiting the development of the oxidizing processes (Ref. 5). Long-lasting storage does not change the properties of the silicate-nitrile vulcanizates, which is of practical significance in the mass production of this rubber in the form of chunks. SKN-26 rubber with 60 weight parts of calcium silicate and filled in the latex stage will

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S/138/59/000/012/002/006
An Investigation Into the Properties of Filled Nitrile Rubbers.

Communication 1. The Properties of Filled Silicate-Nitrile Rubbers

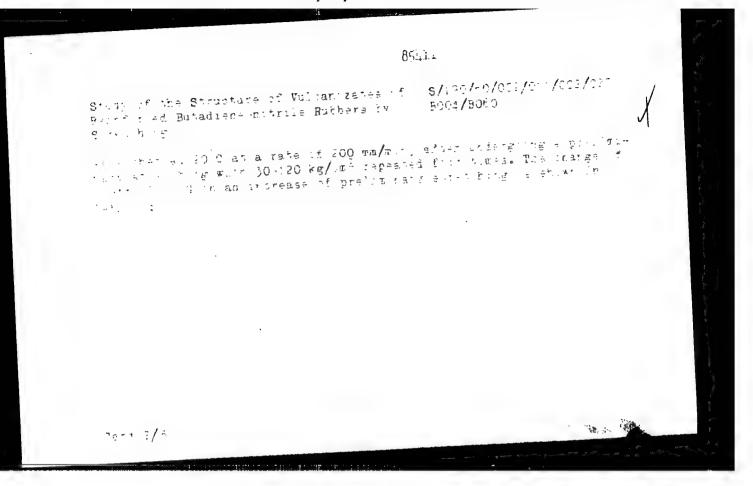
dissolve to only 16.5% in a 75% chlorobenzene and 25% n-dichlorobenzene system, whereas without the filler it would dissolve completely. The vulcanizate with a silicate-nitrile base has a high resistance to swelling, corresponding to the swelling observed in the SKN-26-based rubbers. Rubbers produced from silicate-nitrile raw material have better properties than those produced from nitrile rubbers, where the filler is introduced on the rollers, and are very valuable for the production of various oil-resistant commercial articles.

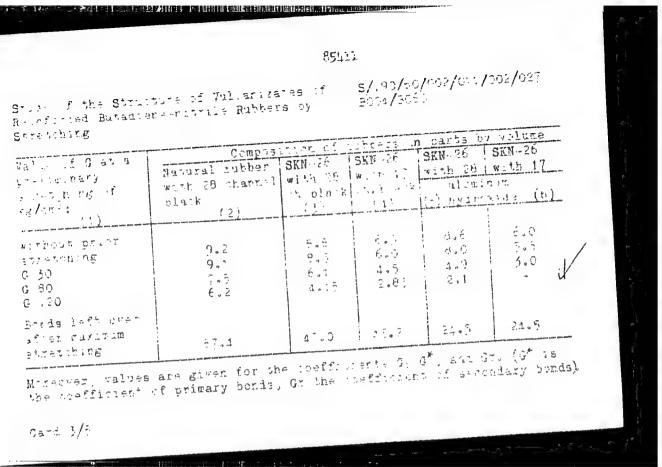
ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific-Research Institute of the Rubber Industry)

Card 4/4

SEVERSCY, V. A., Cand Tech Sci -- (diss) "Research into the performance of scrubbers with jet nozzles." Kazan', 1960. 14 pp; (Ministry of Mirher and Secondary Specialist Mucation REFSH, Kazan' Gremical Technology Inst im C. M. Kirov); 150 copies; price not given; (KL, 26-60, 139)

85/11 s/.50/FC/SC /S. /500/01 5001/F005 112211 V. A. Nov.ket. A. S. Planterst. A. P. Somethern. ATTHORSE. Study of the Structure of Williamore of Relations ad Bunadiene maserie Rubbers by Something PITTEL Tystkomolekulyarnyye scyedineriya, .960, T... I Ni. PER (ODICAL: pp. 1608 - 1612 with the authors wanted to find this whether the semi-amp r is equalize for elementarion bas a function of shress, as developed by A. F. B anchard and D. Park repr (Ref.4), was also applicable to consider the rube rene of 13ed with channel black or atuminum hydroride. The Blackhard of Parkerson aguanton is written down: inF a of at a fining in or Hara, Figenotes the strage par unit area of the orth and the service, all the number of elementions. Gla module which is proportional to all b ris including the sulfur bords of hos outlanter, and, a factor of the outlanter of the entries of the interaction between mubbar and to extend authors f ran condu tad tests with CKH-26 (SKN-26) ripter filled with cannot Ala R. Alo vo solicare, or aluminum hydroxide. The riccer see loser was rard /=







Study of the Syrutture of Veloanizates of \$/490/60/002/011/002/021 Baarforded Buradiene-ritrile Rubbers by \$2004/8060 Situations

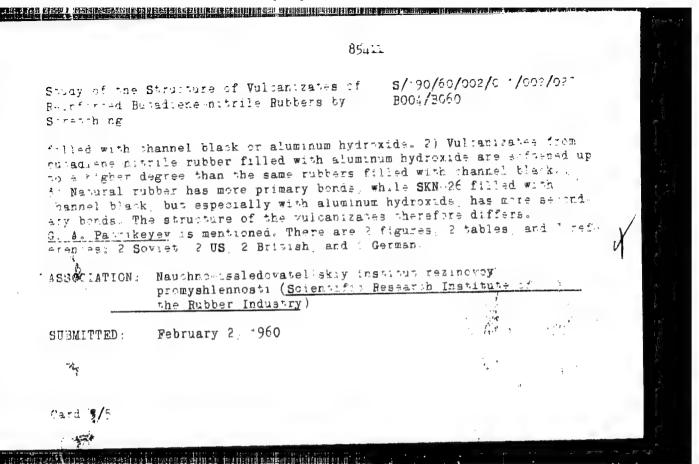
Calculations were made on the basis of equation $G = G' + G \circ F(x)$, $x = \alpha S/G^{2/3}$ is written for x, S being the attraction of this intersection. Table ?

| Composita in of rubbers in parts by volume | 72 | The state of the s | |
|--|---------------------------------|--|---------------------------------|
| Natural rubber with 28 oh. black SKN-26 with 28 oh. black SKN-26 with 17 oh. black SKN 36 with 28 Al(OH) 3 SKN-26 with 17 Al(OH) 3 | 9.2 8.8 6.3 8.6 6.0 | 5.2 2.5 2.7 1.2 | 4.0 6.0 3.5 7.4 5.1 |

Basing on these data, the following conclusions are reached: 1) The Flanchard equation is also applicable to butadiene mittile current

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s/138/60/000/004/003/008 A051/A029

11.2220 AUTHORS:

Shyetsov, V.A., Novikov, A.S., Pisarenko, A.P.

TITLE:

The Properties of Filled Aluminate-Nitrile Rubbers Kauchuk i Rezina, 1960, No. 4, pp. 12 - 17

PERIODICAL:

The results of the development of a method for producing ni-

trile rubbers filled with aluminum hydroxide in the latex (called aluminate--nitrile rubber) are given. With this method it is possible to produce vulcanizates with high physico-mechanical properties. No complex apparatus is necessary and the aluminate-nitrile rubbers have a higher mechanical resis... tance than the silicate-nitrile rubbers. The CKH-18 (SKN-18) and the CKH-26 (SKN-26) latexes were used in the production of the aluminate-nitrile rubber. Vulcanizates produced from aluminate-nitrile rubber have a high elasticity. The specific elongation in SKN-26 reaches 1,000 - 1,100%. Rubbers with aluminum hydroxide obtained from the latex, as well as that with introduction on the rollers have an elevated residual elongation and a high resistance to wear and tear. The resistance to repeated bending and crack growth is higher in vulcanizates with aluminum hydroxide introduced into the latex

card 1/4

s/138/60/000/004/003/008 83837 A051/A029

compared to introduction on the rollers only. In order to study the resist. The Properties of Filled Aluminate-Nitrile Rubbers compared to introduction on the rollers only. In order to study the resist ance of the rubber to thermal effect, samples of various vulcanizates were subjected to sping in a thermostat at temperatures 100 127 and 130°C. heginning ance of the rubber to thermal effect, samples of various vulcanizates were subjected to aging in a thermostat at temperatures 100,120 and 130°C, beginning with 12 hours and lasting up to 10 days subjected to aging in a thermostat at temperatures with 12 hours and lasting up to 10 days.

With aluminum hydroxide introduced on the rollers. with 12 hours and lasting up to 10 days. The best results showed rubbers Aluminate nitrile rubbers with aluminum hydroxide introduced on the rollers. Aluminate who suthers and he stored for a long time without changing their properties. with aluminum nydroxide introduced on the rollers. Aluminate nitrile rubbers The Suthors on be stored for a long time without changing their properties. Higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained in the later has a higher attempted to discover why the filler obtained has a higher attempted to discover why the filler obtained has a higher attempted to discover has a higher attempted to discover why the filler obtained has a higher attempted to discover higher attempted to discover higher attempted higher attempted higher attempted higher attempted higher higher higher attempted higher highe can be stored for a long time without changing their properties. In a substant to the filler produced consists and in the latex has a higher attempted to discover why the filler produced consists. attempted to discover why the filler obtained in the latex has a higher strengthening power as compared to the filler produced separately and into the rubber on the rollers. strengthening power as compared to the filler produced separately and introThey also tried to determine the comThey also tried to determine of the notage in the properties of mineral fillers of the notage in the properties of mineral fillers of the notage in the properties of mineral fillers of the notage in the notage duced into the rubber on the rollers. They also tried to determine the comparative properties of mineral fillers of the potassium silicate and aluming parative properties of mineral fillers carbon black. The structuralizing um hydroxide types, e.g., gaseous channel carbon black and found to control to played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and found to control played by the fillers was investigated experimentally and control played by the fillers was investigated experimentally and control played by the fillers was investigated experimentally and control played by the fillers was investigated experimentally and control played by the fillers was investigated experimentally and control played by the fillers was an experimentally and control played um nydroxide types, e.g., gaseous channel carbon black. The structuralizing role played by the fillers was investigated experimentally and found to correct played by the fillers was investigated experimentally and found to correct played by the fillers was investigated experimentally made of the fillers was investigated experimentally made of the fillers was investigated experimentally and found to correct played by the fillers was investigated experimentally and found to correct played by the fillers was investigated experimentally and found to correct played by the fillers was investigated experimentally and found to correct played by the fillers was investigated experimentally and found to correct played by the fillers was investigated experimentally and found to correct played by the fillers was investigated experimentally and found to correct played by the fillers was investigated experimentally and found to correct played by the fillers was investigated experimentally and found to correct played by the fillers was investigated to th respond favorably with previous data (Refs. 2 - 5). The experiments also showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming showed that the high attempthening shility of colors and sluming shility respond lavorably with previous data (Hers. 2 - 5). The experiments also showed that the high strengthening ability of calcium silicate and aluminum hydroxide obtained in the later can be explained by the high dispersion of showed that the high strengthening ability of calcium slilcate and aluminum hydroxide obtained in the latex can be explained by the high dispersion of the filler and good distribution of the filler in the rubt nydroxide obtained in the latex can be explained by the high dispersion of the rubber the particles of the filler and good distribution of the filler in the rubber mass, as well as the sheepes of aggregation of the narticles formation of the particles of the filler and good distribution of the filler in the rubbe mass, as well as the absence of aggregation of the filler to form a bond the filler and the ability of the filler to form a bond

83837 s/138/60/000/004/003/008 A051/A029

The Properties of Filled Aluminate-Nitrile Rubbers

of the adsorption type with the rubber. The experimental data also proved that the presence of the SO4 group in the molecule does not affect the strengthening ability of aluminum hydroxide produced in the latex, contrary to other opinions. The SO4 group can have an effect on the crystallization process which takes place when the filler is produced outside of the latex, and, therefore, on the structure and dispersion of the filler and, thus, indirectly on the strengthening ability of the latter. The method developed for producing aluminate-nitrile rubbers has great significance for the Soviet Rubber Industry, since it lowers the energy consumption, the time needed to produce the mixtures and improves the productivity of the mixing apparatus. The rubber produced in the form of chunks enables one to automate the weighing and loading processes during mixing. It also enlarges the assortment of the different rubbers used in the manufacturing of oil-resistant and thermoresistant rubber products. Finally, this method replaces the use of scarce carbon black, since the aluminate-nitrile rubber yields vulcanizates similar in their properties to that of the vulcanizates on a gaseous carbon black base. There are 6 tables, 1 figure and 10 Soviet references.

Card 3/4

83837

S/138/60/000/004/003/008 A051/A029

The Properties of Filled Aluminate-Nitrile Rubbers

ASSOCIATION:

Nauchno-issledovatel:skiy institut rezinovoy promyshlennosti i Vsesoyuznyy nauchno-issledovatel:skiy institut plenochnykh materialov i iskusstvennoy kozhi (Scientific Research Institute of the Rubber Industry and All-Union Scientific Research Institute of Film Materials and Synthetic Leather)

Card 4/4

CIA-RDP86-00513R001550410015-9 "APPROVED FOR RELEASE: 03/14/2001

69167 5/069/60/022/02/015/024 D034/D002

15.9200 AUTHORS:

5

Shvetsov, V.A., Pisarenko, A.P., Shtarkh, B.V.,

Novikov, A.S.

An Electron Microscopic Study of the Structures of TITLE:

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Reinforced Rubbers

Kolloidnyy zhurnal, 1960, Vol XXII, Nr 2, pp 233-236 PERIODICAL:

(USSR)

The authors report on the results of an electron mi-ABSTRACT:

croscopic study of the structuration of silicate and aluminate fillers in rubbers of the type SKN-18 and SKN-26. The silicate fillers were obtained from sodium silicate and calcium chloride silicate, the aluminate fillers - from the carbonates of sodium and aluminum sulfate. The study, which was carried out with an electron microscope of the type EM-3

(magnification - 7500), showed in the rubber solutions

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An Electron Microscopic Study of the Structures of Reinforced Rubbers

the presence of sol and gel rubber fractions and of loose coagulation structures of the fillers (see electron microscopic photographs on insert). The electron microscopic photographs on insert) of the elementary particles of aluminate dispersity of fillers is more pronounced than the dispersity of silicate fillers; the visibility of the particles silicate fillers; the visibility of the particles is near the limit of the resolving capacity of the is near the limit of the whole it could be shown electron microscope. On the whole it could be shown electron microscope. It was aggregation tendencies that high dispersity, low aggregation tendencies and the ability to form loose network and chain coadulation structures on the part of the fillers are agulation structures on the part of the fillers are highly important factors in the reinforcement of highly important

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An Electron Microscopic Study of the Structures of Reinforced Rubbers

rubber mixtures. A.P. Pisarenko and collaborators [Ref 5] (in agreement with P.A. Rebinder and his school) showed that the participation of surface-active substances (additives) in the formation of mineral fillers determines basic characteristics of the fillers, as high dispersity and the ability to form chain and network structures. The authors investigation was carried out on the lines of the results obtained by these scientists. There are 5 electron microscopic photographs on a centerfold and 9 Soviet references.

ASSOCIATION:

Nauchno-issledovatel'skiy institut plenochnykh materialov i iskusstvennoy kozhi, Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti;

Card 3/4

69467

S/069/60/022/02/015/024 D034/D002

An Electron Microscopic Study of the Structures of Reinforced Rubbers

Moskva (Scientific Research Institute of Film Materials and Synthetic Leather, Scientific Research Institute of the Rubber Industry; Moscow)

SUBMITTED:

February 7, 1959

Card 4/4

87768

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2109. 1209, 1429

5/069/60/022/006/005/008 B013/B066

AUTHORS:

Shvetsov, V. A., Pisarenko, A. P., and Novikov, A. S.

TITLE:

Problem of Investigating the Bond Character in the System

Rubber - Filler

PERIODICAL:

Kolloidnyy zhurnal, 1960, Vol. 22, No. 6, pp. 743-747

TEXT: The authors applied the method devised by B. Dogadkin and co-workers (Refs. 1 and 2) to study the dispersion of calcium silicate an aluminum hydroxide in rubber mixtures and in vulcanized rubber. The present paper reports the results with respect to aluminum hydroxide. The partial or complete extraction of aluminum hydroxide from the rubber by boiling in weak NaOH solutions was shown to be possible. The shortest extraction time (2 hours) was found to correspond to the optimum filling extraction time (2 hours) was found to correspond to the optimum filling of 60 parts by weight. In this case a maximum development of structure of 60 parts by weight. In this case a maximum development of structure of the filler, which facilitates the penetration of the solvent into the rubber. With poor facilitates the penetration of the filler is less pronounced; and extraction is more time-consuming. This rule also holds for plasticized Card 1/3

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Problem of Investigating the Bond Character in the System Rubber - Filler

s/069/60/022/006/005/008 B013/B066

rubbers (binary system rubber - filler). The extraction in this case, however, proceeds more slowly than in rubbers that had not been rolled, which is due to a denser structure and a higher number of rubber - filler bonds. On incorporation of aluminum hydroxide during the rolling less compact rubbers were obtained than on incorporation of the filler into latex. The filler incorporated during rolling was found not to form chain structures. The authors further studied the effect of stearin as a dispersion medium on the properties of the resultant rubber. The extraction of aluminum hydroxide was found to be accelerated by the introduction of stearin. In vulcanized rubbers the aluminum hydroxide extraction takes place in the same way as in non-vulcanized systems. The comparatively easy extraction of aluminum hydroxide from rubber mixtures and vulcanized rubber indicates that prevalently physical bonds, presumably of the adscrption type, are formed between the individual filler and the nitrile rubber. Stable chemical bonds are either not formed at all or only to a low extent. After incorporation of aluminum hydroxide into the latex state and after subsequent extraction of this filler the rubbers disclose properties which differ from the original ones. The mixtures obtained on the basis of extracted (KH-26 (SKN-26) rubber gave much harder vulcanized

Card 2/3

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Problem of Investigation the Bond Character in the System Rubber - Filler

3/069/60/022/006/005/008 B013/B066

rubbers than mixtures of SKN-26 rubber obtained from latex. The tearing strength is in the former case 45 kg/cm2 (relative elongation 480%), and in the latter case 31 kg/cm2 (relative elongation 510%). The rubbers were dried at 120°C The higher strength of the vulcanized rubbers obtained from rubber whose filler had been extracted suggests a possible structure formation under the action of aluminum hydroxide, that is to say. the formation of direct bonds between the polymer molecules during the heat treatment of the system rubber - filler. There are 5 figures and 9 references: 5 Soviet, 2 German, 1 US, and 1 British.

ASSOCIATION: Nauchno-is:ledovatel'skiy institut rezinovo, promyshlennosti,

Moskva (Scientific Research Institute of the Rubber

Industry, Moscow)

SUBMITTED:

August 27, 1959

Card 3/3

RUST CLAMBAINTY, A.S. [Resmodanians tayl, 0.8.] (Saratov);

MEDILIBRITY, V.V. [.enlins kyl, V.V.] (Saratov); SEVETSOV, V.A.
(Saratov)

Stretching of an anisotropic plate having a curvilinear hole reinforced with a rigid ring. Prykh.mekh. E no.3:137-247 '62.

(MIRA 15:6)

1. Saratovskiy gosudarstvennyy univorsitet,
(Elaptic plates and shells)

ZIGMUND, F.F.; SHVETSOV, V.A.

Recovery of solvents in industrial enterprises with the method of two-phase adsorption. Lakokras.mat.i ikh prim. no.2:65-66 (MIRA 15:5)

(Painting, Industrial—Equipment and supplies)

ACCESSION NO: AP4017166

S/0138/64/000/002/0052/0053

AUTHORS: Shvetsov, V. A.; Frenkel', R. Sh.; Pisarenko, A. P.; Zalesskaya, A. D.

minutes was although the sittle for the site of the si

TITLE: The use of native clays as raw material for the rubber industry

SOURCE: Kauchuk i rezina, no. 2, 1964, 52-53

TOPIC TAGS: rubber, vulcanized rubber, filler, clay, brown clay, kaolin, physico-mechanical property, scorching, wear, tensile strength, stretch, modulus, deformation, SKS 30 synthetic rubber, SKN 26 synthetic rubber

ABSTRACT: The present study was undertaken to find out whether the abundant brown Khvaly*nsk clays of the Pochtar deposit in the vicinity of the Volga Chemical Industrial Combine could be substituted for kaolin as a filler for SKS-30 and SKN-26 rubber. The brown clay contains (in %) 54.6 SiO₂, 19.1 Al₂O₃, 8.7 Fe₂O₃, 3.4 CaO, and 3.9 MgO, while kaolin contains 46.5 SiO₂, 59.5 Al₂O₃, and no Fe₂O₃, CaO, or MgO. The specific surface of the brown clay is 56.0 m²/g as against 25.0 m²/g for kaolin. The working of the standard rubber compounds containing either brown clay or kaolin was conducted on laboratory rolls, and the physical and mechanical properties of the obtained vulcanizates evaluated by standard techniques. It was found that in plasticity and resistance to scorching both clays were practically identical,

Card 1/2

CIA-RDP86-00513R001550410015-9 "APPROVED FOR RELEASE: 03/14/2001 · 建铁石矿 (1915年)等年载 10月1日至,使美国农山旅游的时间周围时间期的时间,但由西川市的西山

but the rate of vulcanization in the presence of brown clay was enhanced, requiring at 1430 only 30 minutes as against 50 for kaolin, and the strength of the obtained vulcanizate was higher. However, it required nearly 70-80 parts by weight of the brown clay, as against 40 parts of kaolin, to bring about an optimal strength in the vulcanizate. It was also established that the vulcanizates containing the brown clay have a higher modulus index, a lesser degree of hysteresis, and a higher endurance under multiple deformation stress than kaolin-filled vulcanizates. Orig.

ASSOCIATION: Volzhskiy filial nauchno-issledovatel skogo instituta rezinovoy art. has: 1 table and 2 charts. Promy*shlennosti (Volga Branch of the Scientific Research Institute of the Rubber ENCL: 00 Industry)

SUBMITTED: 00

DATE ACQ: 23Mar64.

000 OTHER:

SUB CODE:

NO REF SOV: 000

Card 2/2

CIA-RDP86-00513R001550410015-9" APPROVED FOR RELEASE: 03/14/2001

KOSMODAMIANSKIY, A.S. [Kosmodamians'kyi, O.S.] (Saratov);
MEGLINSKIY, V.V. [Mehlins'kyi, V.V.] (Saratov); SHVETSOV,
V.A. (Saratov)

Stretching of an anisotropic plate with an arch-shaped hole, Prykl. mekh. 9 no.4:441-446 '63. (MIRA 16:8)

1. Saratovskiy gosudarstvennyy universitet.

KOSMODAMIANSKIY, A.S. [Kosmodamians'kyi, O.S.] (Saratov); MEGLINSKIY, V.V. [Mehlins'kyi, V.V.]; (Saratov); SHVETSOV, V.A. (Saratov)

Tension of an anisotropic plate with a trapiezoid hole reinforced with a rigid ring. Prykl. mekh. 9 no.6:683-685 '63. (MIRA 16:12)

1. Saratovskiy gosudarstvennyy universitet.

ACC NR: AP6036454

SOURCE CODE: UR/0198/66/002/011/0015/0024

AUTHOR: Shvetsov, V. A. (Saratov)

ORG: Saratov State University (Saratovskiy gosudarstvennyy universitet)

TITLE: Elastic equilibrium of an anisotropic plate with a finite number of elliptic holes reinforced by elastic rings

SOURCE: Prikladnaya mekhanika, v. 2, no. 11, 1966, 15-24

TOPIC TACS: anisotropic plate, orthotropic plate, hole weakened plate, slastic strus,

ABSTRACT: An effective method of analyzing the elastic equilibrium and the state of stress in anisotropic plates weakened by elliptic holes has been developed by A. S. Kosmodamianskiy (Izv. AN Arm SSR, Seriya fiz. matem. nauk, v. 13, no. 6, 1960; Inzhenernyy zhurnal, v. 2, no. 3, 1962; and Prikladnaya mekhanika, v. 1, no. 10, 1965). In this article this method is applied in a case when the edges of N identical elliptic holes in an anisotropic infinite plate are reinforced by identical elliptic anisotropic rings. The centers of holes are equally spaced and their major axes are placed in line; the rings are fastened (glued or soldered) to the plate along their outer contours. The self-balanced stresses in the middle surface of the plate along each hole edge, as well as the state of stress in infinity are given. Determination of stress distributions in the plate and in the reinforcing rings is reduced to determining the functions of complex variables which describe

Card 1/2

ACC NR: AP6036454

the states of stress in these elements; the formulas for calculating the normal and tangential stresses in them are given. The obtained solution is applied to analysis of stress distribution in an orthotropic plate with two elliptic holes reinforced by rings made of a different orthotropic material. The plate is subjected in infinity to uniform tensions in the direction of the major hole axes and in the direction perpendicular to it; the hole edges are free of external loads. The results of a numerical calculation of stress distribution in a particular plate (with and without rings) performed on the "Ural-2" electronic computer are given in tables and are discussed in detail. Orig. art. has: 2 figures, 25 formulas, and 2 tables. [WA-74]

SUB CODE: 20/ SUBM DATE: 28Dec65/ ORIG REF: 006

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Card 2/2

ACC NR: AP6036454

SOURCE CODE: UR/0198/66/002/011/0015/0024

AUTHOR: Shvetsov, V. A. (Saratov)

ORG: Saratov State University (Saratovskiy gosudarstvennyy universitet)

TITIE: Elastic equilibrium of an anisotropic plate with a finite number of elliptic holes reinforced by elastic rings

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SOURCE: Prikladnaya mekhanika, v. 2, no. 11, 1966, 15-24

TOPIC TAGS: anisotropic plate, orthotropic plate, hole weakened plate, slastic street,

ABSTRACT: An effective method of analyzing the elastic equilibrium and the state of stress in anisotropic plates weakened by elliptic holes has been developed by A. S. Kosmodamianskiy (Izv. AN Arm SSR, Seriya fiz. matem. nauk, v. 13, no. 6, 1960; A. S. Kosmodamianskiy (Izv. AN Arm SSR, Seriya fiz. matem. nauk, v. 13, no. 10, Inzhenernyy zhurnal, v. 2, no. 3, 1962; and Prikladnaya mekhanika, v. 1, no. 10, 1965). In this article this method is applied in a case when the edges of N 1965). In this article this method is applied in a case when the edges of N 1965). The centers of holes are equally spaced and their elliptic anisotropic rings. The centers of holes are equally spaced and their major axes are placed in line; the rings are fastened (glued or soldered) to the plate along their outer contours. The self-balanced stresses in the middle surface of the plate along each hole edge, as well as the state of stress in infinity are given. Determination of stress distributions in the plate and in the reinforcing rings is reduced to determining the functions of complex variables which describe

Card 1/2

the states of stress in these elements; the formulas for calculating the normal and tangential stresses in them are given. The obtained solution is applied to analysis of stress distribution in an orthotropic plate with two elliptic holes reinforced by rings made of a different orthotropic material. The plate is subjected in infinity to uniform tensions in the direction of the major hole axes and in the direction perpendicular to it; the hole edges are free of external loads. The results of a numerical calculation of stress distribution in a particular plate (with and without rings) performed on the "Ural-2" electronic computer are given in tables and are discussed in detail. Orig. art. has: 2 figures, 25 formulas, and 2 tables. [WA-74]

SUB CODE: 20/ SUBM DATE: 28Dec65/ ORIG REF: 006

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550410015-9"

Card 2/2

CIA-RDP86-00513R001550410015-9 "APPROVED FOR RELEASE: 03/14/2001

28 (5) AUTHOR:

Shvetsov, V. B.

SOV/32-25-6-42/53

TITLE:

Application of an Electron Potentiometer as Programming Regulator (Ispol'zovaniye elektronnogo potentsiometra v

kachestve programmnogo regulyatora)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 6, pp 752-753 (USSR)

ABSTRACT:

The electron potentiometer EPD-02 is in the present case used as a programming regulator for the temperature regulation of electric furnaces without any modification of its construction. Instead of the paper diagram a disk (diameter 280-300 mm) of brass- or copper sheet is fastened on to which a paper is pasted which is formed according to a fixed program (Fig 1). The disk rotates while an electric contact slides on it which is fastened to the indicator; usually the recorder is fastened to the indicator. Two contacts are applied to three position regulators, each contact being connected with an other indicator (fig 2). It is possible to change the distance between the electric contacts. There are

2 figures.

Card 1/2

Application of an Electron Potentiometer as

SOV/32-25-6-42/53

Programming Regulator

ASSOCIATION:

Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut (Ural Scientific Research Institute of Chemistry)

Card 2/2

CIA-RDP86-00513R001550410015-9" APPROVED FOR RELEASE: 03/14/2001

28(5) AUTHORS: SOY/32-25-7-28/50

Shvetsov, V. B., Pavlushkin, N. M.

TITLE:

News in Brief (Korotkiye soobshcheniya)

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 7, p 862 (USSR)

ABSTRACT:

V. B. Shvetsov (Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut) (Ural Scientific Chemical Research Institute) suggest a device for using the recording galvanometer as a contact galvanometer. Its function as a recording galvanometer was not influenced by its use as a contact galvanometer. In principle, the device is a contact arrangement (Fig) by which the minimum and maximum temperature of a furnace can be fixed. N. M. Pavlushkin (Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva) (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev) describe the preparation of corundum cuts which are used in the investigation of baked corundum samples. The prismatic samples (three samples: 5 x 5 x 18 mm) are pasted on to steel disks (diameter: 25-30 mm) and fixed to a grinding roll with 100 rpm. The samples are cut on cast iron disks (of the type SChM 32-52) with electrocorundum powder. The following substances are used in cutting: electrocorundum Nr 320 for ten minutes, M-10 for ten minutes, M-5

Card 1/2

507/32-25-7-28/50

News in Brief

for 10 minutes, and alumina (annealed at 14500, grain > 2μ) for 20 minutes. After cutting the samples are polished.

There is 1 figure.

ASSOCIATION:

Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut

(Ural Scientific Chemical Research Institute).

Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Men-

deleyeva (Moscow Institute of Chemical Technology imeni

D. I. Mendaleyev)

Card 2/2

NIKOLAYEV, Boris Aleksandrovich; REBINDER, F.A., atmentic retsenzent; Vollacovich, N.F., prof., retsenzent; Halch W. G.S., prof., retsenzent, GRYUNER, V.S., prof., retsenzent; SHVETSOV, V.G., red.

[Measurement of the structural and mechanical properties of food products] Izmerenie strukturno-mekhanicheskikh swoistv pichchevykh produktov. Moskva, Ekonomika, 1904. (NIRA 1813)

HVETSOV, V M.

AID P - 1666

Subject

: USSR/Engineering

Card 1/2

Pub. 28 - 6/9

Author

: Shvetsov, V. M.

Title

Permissible spans and deflection for pipe lines laid on

props

Periodical: Energ. byul.,2,21-24, F 1955

Abstract

: While a major part of the pipe system at the heat and electric power plants (TETs) and in the petroleum refineries is laid underground, there is a great deal of piping suspended or laid on props. The author discusses

the inadequacy of information pertaining to allowable spans and sags and presents several cases of variations in existing practices. He analyses these data and suggests that generalization of existing experience in construction

and long operating records of suspended pipe-systems

AID P - 1666

Energ. byul.,

Card 2/2 Pub. 28 - 6/9

will allow creation of norms for calculation of length of span.

Institutions: Glavenergo (Main Administration of the Power Industry);
Giprogrozneft' (State Institute for Planning of the
Groznyy Petroleum and Gas Industry);
Toploelektroproyekt (Trust for Planning and Investigation

of Heat and Electric Power Plants, Networks and Sub-

stations)

Submitted : No date

SHVETSOV, V.N.; DEMINA, V.N., redaktor; CHUVANOV, M.I.,
tekhnicheakty redaktor

[Wage tables for railroad freight loaders] Tablitsy dlia opredeleniia zarabotnoi platy gruzchikov na pogruzochno-razgruzochnykh
rabotakh. Moskva, Gos. statisticheskoe izd-vo, 1953. 158 p.
[Microfilm]

(Railroads--Freight--Tables, etc.)
(Loading and unloading)

(Wages--Tables and ready-reckonere)

UHYLTOUT, Tasiliy dikolayevich

N/5 762.206 .S5

SHVETSOV, Vasiliy Nikolayevich

Statistika truda na zheleznodorozhnom transporte (Labor statistics in railroad transportation) Moskwa, Transzheldorizdat, 1956.

173 p. diagrs., tables.

SHVETSOV, Vasiliy Nikolayevich; YURCHENKO, I.F., retsenzent; KOLTUNOVA, M.P., red.; USENKO, L.A., tekhn. red.

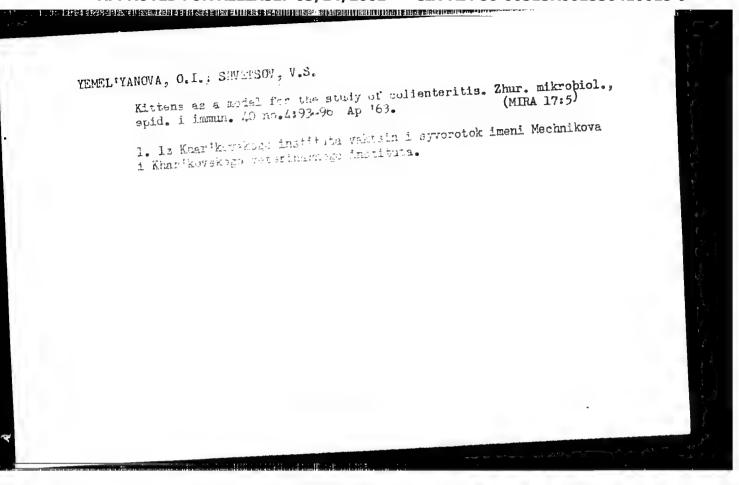
[Labor productivity in railroad transportation and ways of improving it] Proizvoditel'nost' truda na zheleznodorozhnom transporte i puti ee povysheniia. Moskva, Vses. izdatel'sko-poligraf. ob"edinenie M-va putei soobshcheniia, 1961. 45 p. (MIRA 14:10) (Railroads—Labor productivity)

SHVETSOV, V.S.

Effect of rectal instillations of water on the activity of some organs and on the system of horses. Veterinarila 36 no.10:39-41 0 '59.

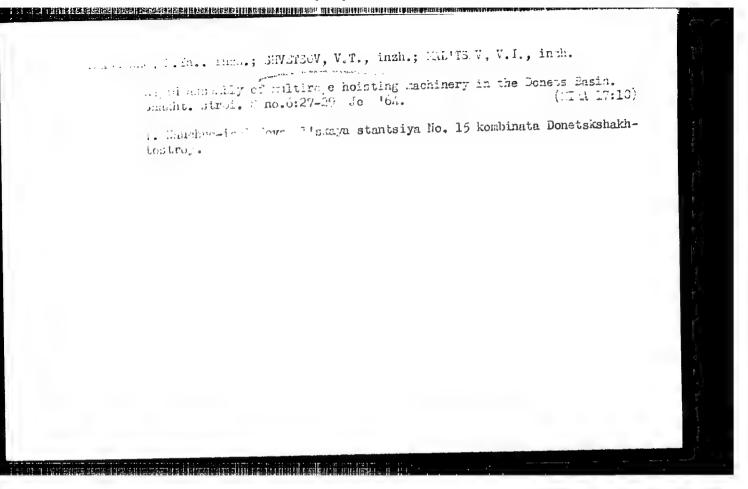
1. Ordinator Khar'kovskogo veterinarnogo instituta.

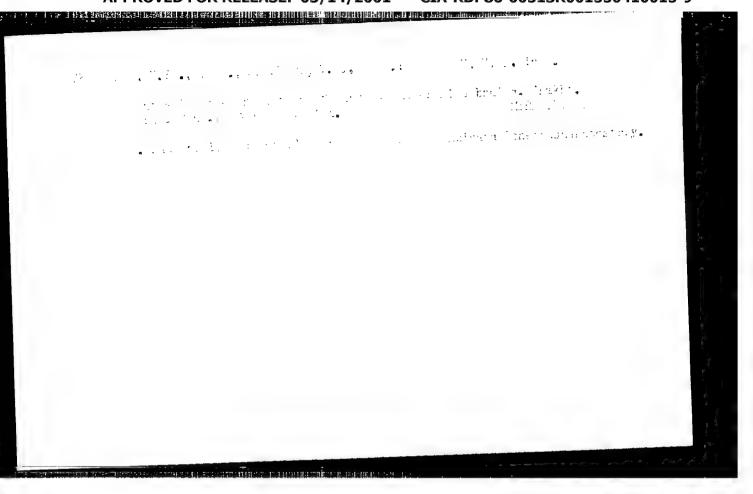
(Enema) (Herses)

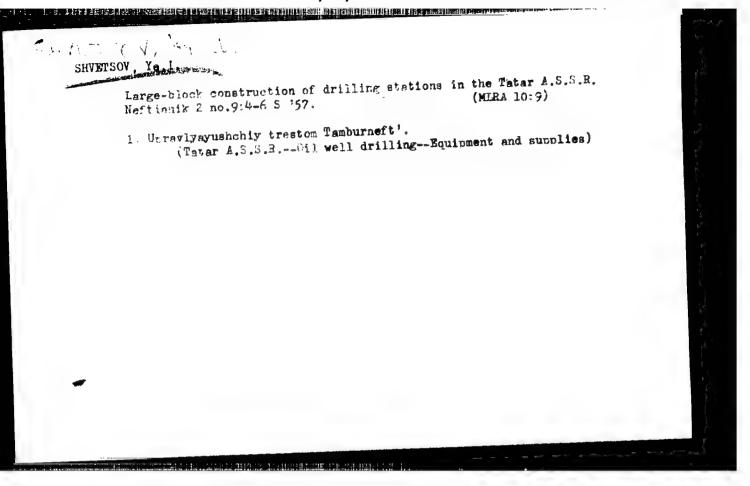


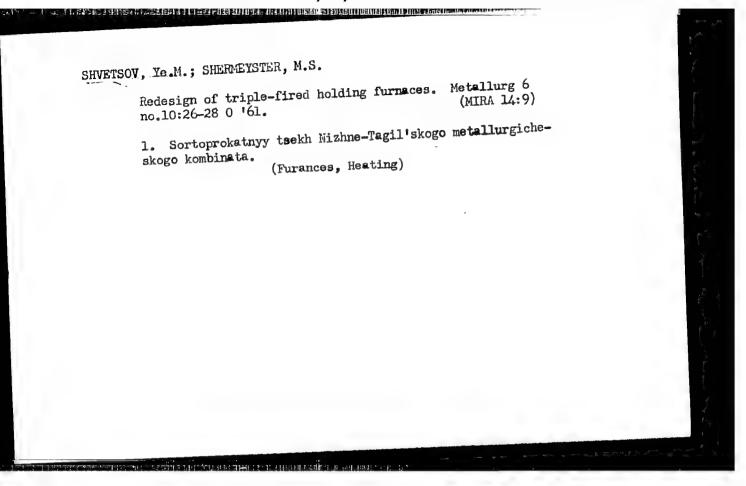
uneation in the ultivertime of a monolithic reinforced concrete headfrom for multirope hoisting, Smakht. strei. no.6:23-24 ce '64.
(LHE 17:10)

1. Streiteneye apraviency No.1 trusta Donetskishalihtstroy (for
Shol'nhow). 2. Mauchno-issledowatel's maya stantsiya No.15 kombinata
Donetskishalihtostroy (for Livetsoy).









SUV/126-7-4-1/26

ALTHOR:

Shversov, Te.N.

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TITLE:

On the Theory of Phase Transitions in a Bose Gas

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 7, Nr 4,

pr 461-490 (USSR)

ABSTRACT:

General formulae are derived using the results obtained by Rumer (Ref 1 and 2) for the change in thermodynamic quantities of an ideal Bose gas near the λ -point. cases are considered, namely a free boson gas and a charged boson gas in a magnetic field. The latter case is of particular interest since, as was shown in Ref 3 and 4, a charged Bose gas in a magnetic field has the properties of a superconductor. Formulae are derived for the change in the specific heat at the λ -point and also the change in the derivative of the specific heat with respect to temperature at that point. This is done using the known dependence of the number of particles on the chemical potential and temperature (Ref 1). This dependence is given by Eq (1). In the second of the above two cases, it is shown that the change in the specific heat at the λ -point is proportional to the square root of the magnetic field and inversely

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SOV/12b-7-4-1/26

to the Theory of Thase Transitions in a Bose Gas

proportional to the square root of the condensation temperature in the absence of the field. This applies to weak fields. In the case of strong fields, the change in the specific heat has a logarithmic dependence on the field. There are 7 references, b of which are Joviet and 1 German.

AJS: CIATION: Novosibirskiy gosudarstvennyy pedagogichcskiy institut (Novosibirsk State Institute of Education)

SUBMITTED: March 7: 1957

Card 2/2

SHVETSOV, Ye.S.; MEKHANOSHIN, S.P.

Distribution of phlogopite deposits in the Aldan mica-bearing province. Zakonom. razm. polezn. iskop. 6:373-384 '62. (MIRA 16:6)

1. Yakutskoye geologicheskoye upravleniye. (Yakutia—Phlogopite)

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"APPROVED FOR RELEASE: 03/14/2001

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THE RESERVE THE THE PROPERTY OF THE PROPERTY O JD/RM: LIP(c) EWT(m)/EPF(c)/EWP(j)/T/EWP(t)/EWP(b) Pc-4/Pr-4 L 57079-65 UR/0079/65/035/004/0689/0693 ACCESTION NR: AP5010791 547.258.2 AULIONS: Andrianov, K. A.; Lavygin, I. A.; Shvetsov, Yu. A. TITL. Synthesis and properties of branching 8-hydroxyquinoline titanium dime: ; isiloxanes of oligomers SOURCE: Zhurnal obshchey khimii, v. 35, no. 4, 1965, 689-693 TOPIC TAGS: polymer, organic synthesis, titanium, organo metallic compound, glass transition temperature, IR spectroscopy, viscosity ABSTRACT: The synthesis and some properties of the liquid tert(polydimethylsiloxane trimethylsiloxy)-8-hydroxyquinoline titanium oligomers (I) with trimethylsiloxane groups at the branching ends are described. The synthesis of (I) was effected by condensation of 8-hydroxyquinoline tributoxy titanium with alphahydroxy-omega-trimethylsiloxydimethylsiloxane. This yielded oligomers in which the degree of polymerization (n) of the trimethylsiloxane branching is 10, 15, 30, 98, and 136. The glass point of these oligomers is in the interval -102 to -118C, and the refractive index declines systematically with increase in degree of polymerization. The oligomer structure was studied by IR spectroscopy. Card 1/2

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ACCESSION NR: AP5010791

consistent logarithmic decrease in viscosity with increase in temperature indicates that the oligomers are normal liquids within the investigated temperature range. The activation energy in the interval 20-130C ranges from 4.59 kcal/mole for n=15 to 3.62 for n=136. The value drops rapidly at first, then levels off at higher values of n, meaning that the 8-hydroquinoline titanium oxane group determines in great measure the intermolecular reaction. The relation of activation energy to degree of branching is normal for linear polydimethylsiloxanes containing polar groups at the ends of the chains. A tabulation is given for the compositions and properties of the synthesized polymers. Orig. art. has: 5 figures and 3 tables.

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ASSOCIATION: none

SUBMITTED: 05Feb64

ENCL: 00

SUB CODE: GC, OC

NO REF SOV: 009

OTHER: 006

Card 2/2

VOL'PIN, M.Ye.; ILATOVSKAYA, M.A.; LARIKOV, Ye.I.; KHIDFKEL', M.L.; SHVETSOV, Yu.A.; SHUR, V.B.

Nitrogen fixation on hydrogen-activating transition metal complexes. Dokl. AN SSSR 164 no.2:331-333 S '65.

(MIRA 18:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut khimicheskoy fiziki AN SSSR. Submitter February 15, 1965.

SHVETZOV, YU. B.

"Investigation in the group of Vitamin K. II. Tautomeric and Oxydation-Reduction Transformation of 2-Hethyl-1, 4-Naphtoquinone and of its Derivatives". Schukina, L. A. Shvetzov, Yu. B. and Shemiakin, M. M. (p. 330)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1943, Volume 13, no. 4-5.

SHVETZOV, YU. B.

"Investigation in the Group of Vitamin "K". III. On the Mechanism of the Biologic action of Vitamin "K" and of its Synthetic analogues." Shemiakin, M. M. Shchukina, L. A., and Shvetzov, Yu. B. (p. 402)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1943, Volume 13, no. 6.

SHVENLOV, Yu. s. onna. onem. Sci.

Dissertation: "hydrolytic Decomposition of Dubstituted Triketones of the Naphthalene Series." Inst of Biological and Medical Chemistry, Acad Med Sci USSR, 4 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

UDER/Chemistry - 1,4-Naphthoquinone Chemistry - Hydrazine Jan 1948

"Research in the Field of Compounds of Quinoid Structure: II, Reaction of Some Sisulfite Derivatives of P-Naphthoquinone with Substituted Hydrazines," D. A. Bochvar, Ye. I. Winogradova, Yu. B. Shvetsov, M. M. Shemyakin, Lab of Org Chem, Inst of Biol and Med Chem, Acad Med Sci USLR, and Chair of Anal Chem, Moscow Textile Inst, 11 pp

"Zhur Obshch Khim" Vol XVIII (UXXX), No 1

Study the interrelationship of vaious types of pnaphthoquinone derivative bisulfites containing replaceable hydrazines, and observe the properties of the hydrazines formed. Chow fallacies contained in formulas suggested by Palladin for bisulfite produces 2-methyl-1,4-naphthoquinone are by Ofistsev for bisulfite produced 2-methyl-1,4-naphthoquinone-3-sulfonate

Submitted 14 Jan 1 147

PA 64T39

A CHARLEST LIGHT BENTAL LIGHT BENTALING BENTALING BENTALING STATE STATE OF THE STREET STATES AND ASSESSED. 62/49T8SHVETSOV, YU. B. USSR/Chemistry - Cyclic Compounds "Oxidation and Oxidation-Hydrolysis Conversions of Organic Molecules: IX, Study of Conversion of o-(Alpha-Chloropropionyl) Acids Into Carbocyclic Compounds, "Ye. I. Vinogradova, Yu. B. Shvetsov, M. M. Shemyakin, Lab of Org Chem, Inst of Biol and Med Chem, Acad Med Sci USSR, 10 pp "Zhur Obshch Khim" Vol XIX, No 3 Made a study of conditions and mechanism of the preparation of 5-and 6-member carbocyclic compounds from o-(alpha-chloropropionyl)-phenylglyoxylic acid. Submitted 2 Nov 47. 62/4918 FDD

"Oxidizing and oxidizing-hydrolitic conversions of organic molucules: IX: Study of ways of conversions of o-[-n-chlorpronionyi) seids into embosycic empounds".

Ways of conversion of o-[-n-chlorpronionyi) acids into embosycic empounds".

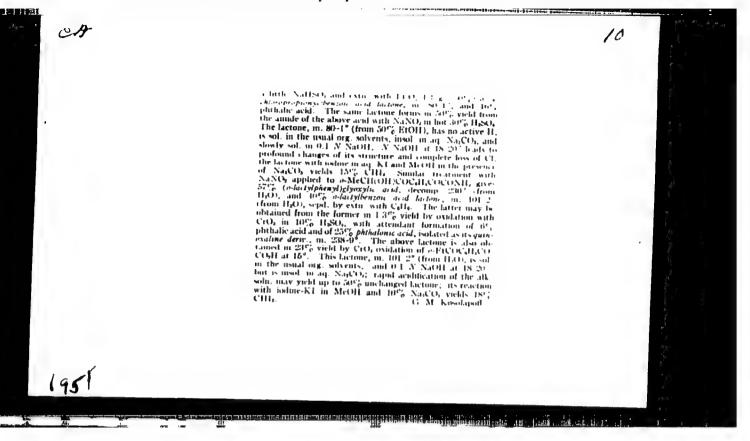
Winogradove, E.I. Shvetov, IU. R. and Shemiskin, M. M. (p. 507)

Winogradove, E.I. Shvetov, IU. R. and Shemiskin, M. M. (p. 507)

Winogradove, E.I. General Chemistry (Thurnal Obshchel Khimii) 1949, Vol. 19, No. 3

Tournal of General Chemistry (Thurnal Obshchel Khimii) 1949, Vol. 19, No. 3

Ordative and ordative - hydrolytic transformations of organic molecules X Aminonolytic method (2.4.39) mathyl (2.4.34) maphylanderitorius (3.2.32) mathyl (2.4.34) maphylanderitorius (3.2.32) mathyl (2.4.34) maphylanderitorius (3.3.32) mathyl (2.3.32) mat



SHVETSOV Yu. B., SHEMYAKIN, M. M., SHCHUKINA, L. A., VITKOVSKIY, D. P. and KHOKLOV, A. S.

"Oxidation and Oxidative-Hydrolytic Conversions of Organic Molecules. XIX.

Relation Between the Degree of Oxidation of Carbocyclic Compounds and the Capacity of Their Ring Groupings to Undergo Hydrolytic Splitting," Zhur. obshch. khim., 21, No.9, 1951

Lab. Org. Chem., Inst. Biol. & Med. Chem., AMS USSR

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(† 1887). A 1887 - TO SE CONTENTIAL DE L'ESTATION EN BRETHINNESSENTEN MAINTAINNE MAINTE MAINTE FRANCE († 1885)

SHVETSOV, YU. B.

USSR/Chemistry - Antibiotics 1 Aug 51

"Synthesis and Properties of Alpha-Dichloroacetylamino-beta-Hydroxy-p-Nitropropiophenone (I)," E. M. Badmas, Ye. I. Vinogradova, D. N. Vitkovskiy, A. S. Khokhlov, Yu. B. Shvetsov, L. A. Shuchukina, Inst of Biol and Med Chem, acad Med Sci USSR

"Dok Ak Nauk SSSR" Vol LXXIX, No 4, pp 6 1-603

It was shown recently, that I is an intermediate product of the enzymatic splitting of chloromycetin by bacteria (G. S. Smith, C. S. Worrel, Arch Biochem, Vol XXVIII, i, 232, 1950). In the present work, I was synthesized. Gives a description of the synthesis.

PA 211T27

UBSR/Chemistry - Antibloties

21 Sep 52

"Mays of Bunkheslaing Combally Assive Analogs of B-Mires-1-(J-mitrophenyl)-2the thornselphenico-1,B-propose dot, W.L. Shenyakin, E.L. Baulas, Ye. I. Vinogramova, M.B. Karapetyan, H.H. Kolosov, A.B. Kokhlov, Yu. B. Shvetsov and L.A. Shehukina, Lab of Org Chem, Inst of Siol and Med Chem, Acad Med Sci USSH

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Juli 1950, 701 Sc, No S, 21 0 J-508

Of the four stereoisoners of 1-(p-nitrophenyl)-2-dichlomacetylamino-1,3-propandiol, only one (the d-threo-isomer) is anti-actorially active (chloromycetin, chloramphenicol, levorycetin). To learn the relationship between the structure of these compas and antibactorial activity, nore analogs of these compas must be synthesized. Two ways of synthesis have been worked out at present. D-or 1-threo-1-(p-nitrophenyl)-2-amino-1, synthesis have been worked out at present. D-or 1-threo-1-(p-nitrophenyl)-2-amino-1, synthesis have been worked out at present. D-or 1-threo-1-(p-nitrophenyl)-2-amino-1, synthesis have been worked out at present. D-or 1-threo-1-(p-nitrophenyl)-2-amino-1, synthesis have been worked to the diazo group is then several different ways to form an optically active compd (V). The been substituted in several different ways to form an optically active compd (V). The been substituted in several different ways to form the aminodial (VI) which is then been substituted into (VII). The other synthesis also starts with (I) which is reduced to the diamino compound (VIII). This is N-dichloracetylated into the hydrochloride (IA) which is diazotized into (X). (X) is converted into (VII) in the same way as (I/) was into (V). Theation schemes are shown in the original paper. Presented by Acad V.M. Rodionov II, Jul 52

PA 247T11

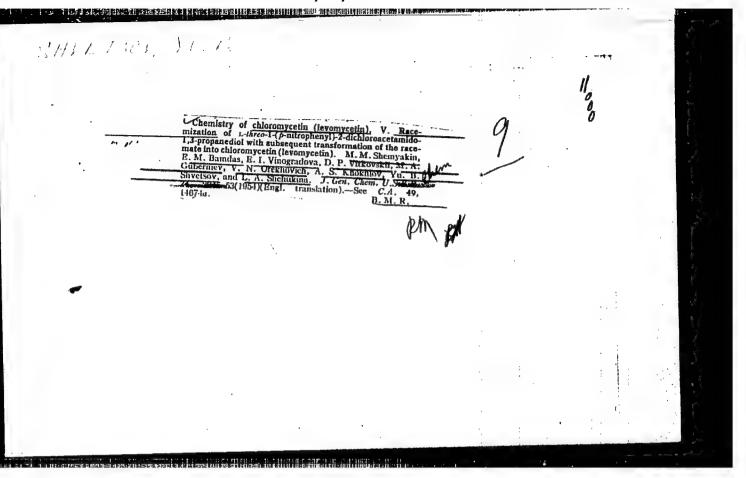
SHEMYAKIN, M.M.; BAMDAS, E.M.; VINOGRADOVA, Ye.I.; KARAPETYAN, M.G.; KOLOSOV, M.N.; KHOKHLOV, A.S.; SHVETSOV, Yu.B.; SHCHUKINA, L.A.

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Research on the chemistry of chloromycetin (levomycetin). Fart 2. Study of the course of synthesis and the synthesis of optically-active analogs of chloromycetin (levomycetin). Zhur.ob.khim. 23 no.11:1854-1867 N '53.

(MIRa 6:11)

1. Institut biologicheskoy i meditsinskoy khimii akademii meditsinskikh nauk SSSR. (Chloremycetin)



SHEMYAKIN, M.M.; BAMDAS, E.M.; VINOGRADOVA, Ye.I.; GUBERNIYEV, M.A.; OREKHOVICH, V.N.; KHOKHLOV, A.S.; SHVETSOV, Yu.B.; SHCHUKINA, L.A.

Research in the chemistry of chloromycetin (levomycetin). Racemization of L-three-l-(M-nitrophenyl)-2-dichloroacetylamino-1.3-propanediol. Dokl.AN SSSR 94 no.2:257-259 Ja '54. (MLRA 7:1)

1. Chlen korrespondent Akademii nauk SSSR (for Shemyakin).
2. Deystvitel'nyy chlen AMN SSSR (for Orekhovich). 3. Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR. (Racemization) (Propanediol)

VOROZHTSOV, Nikolay Nikolayevich, 1881-1941; VOROZHTSOV, N.H.(Jr.),
redaktor; SHVETSOV, Tu.B., redaktor; LUR'YE,M.S., tekhnicheskiy
redaktor; FOUDKIE,F.T., tekhnicheskiy redaktor

[Fundamentals of the synthecis of intermediate products and dyes]
Osnovy sinteza promeshutochnykh produktov i krasitelei. 4-e izd.
Moskva, Gos.nauchno-tekhn. izd-vo khimicheskoi 11t-ry, 1955. 839 p.

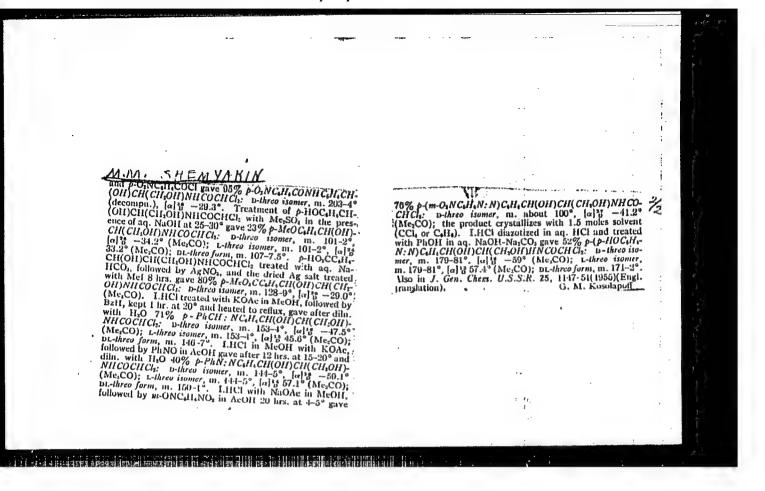
(MIRA 9:3)

(Chemistry, Organic--Synthesis) (Synthetic products) (Dyes and dyeing--Chemistry)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001550410015-9

Chemistry of chloromycela (tevomycela). VI. Synthesis of new optically active analogs of chloromycela (tevomycela). S. Nestony, M. G. (tevomycela). B. M. Shemakin, S. Nestony, E. I. (tevomycela). B. M. Bamilsa, M. Shyetany, E. I. (tevomycela). B. M. Bamilsa, M. J. Ahr. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. Ahr. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. Ahr. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. Ahr. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. Ahr. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. Ahr. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. Ahr. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. Ahr. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. Ahr. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. Ahr. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. Ahr. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. A. Shethul, J. A. W. Oblinkel, Klim Varaprayam, and L. M. Oblinkel, Klim Varaprayam, and L. A. W. Oblinkel, Klim Varaprayam, an



CIA-RDP86-00513R001550410015-9 "APPROVED FOR RELEASE: 03/14/2001

SHVETSOV, YU. G.

USSR/Chemistry - Antibiotics

Card 1/2

Pub. 22 - 27/54

Authors

Shemyakin, M. M., Memb.Cor.Acad. of Sc., USSR; Koloscy, M. N.; Levitov,
M. M.; Germanova, K. I.; Karapetyan, M. G.; Shvetsov, Yu. B.; and Bandas, E.M.
Relation between structure and antimicrobic activity of chloromycetin

Title

(levomycetin) and the mechanism of its reaction

Periodical : Dok. AN SSSR 102/5, 953-956, Jun 11, 1955

Abstract

It is shown that the high selectivity of the biological effect of chloromycetin on microbes is determined simultaneously by the following factors: 1) strong polarizing effect of the p-nitrophenyl radical, the geometrical dimensions of which are of no importance; 2) strong polarizing effect of the dichloroacetyl radical, which should satisfy even the most specific geometrical requirements; and 3) defined geometrical dimensions and corresponding conformation of the aminopropenedial group. The relation between the structure and biological activity of chloromycetin is explained.

Institution

: Acad. of Med. Sc., USSR, Inst. of Biol. and Med. Chem.

Submitted

: January 27, 1955

Truslation in M

Card 2/2 Pub. 22 - 27/54

Periodical : Dok. AN SSSR 102/5, 953-956, Jun 11, 1955

Abstract : Five references: 2 USSR and 3 USA (1858-1955). Diagrams.

SHEMYAKIN, M.M.; KOLOSOV, M.N.; LEVITOV, M.M.; GERMANOVA, K.I.; KARAPETYAN, M.G.; SHVETSOV, Yu.B.; BAMDAS, E.M.

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Chemistry of chloromycetin (levomycetin). Part 8. Relation of the antibacterial activity of chloromycetin to its structure and the mechanism of this activity. Zhur.ob.khim. 26 no.3:773-782 Mr 156.

(MLRA 9:8)

1. Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR.

(Chloromycetin)

SHEMYAKIN, M.M.; SHCHUKINA, L.A.; VINOGRADOVA, Ye.I.; KOLOSOV, M.N.; VDOVINA, R.G.; KARAPETYAN, M.G.; RODIONOV, V.Ya.; RAVDEL', G.A.; SHVETSOV, Yu.B., BAMDAS, E.M.; CHAMAN, Ye.S.; YERMOLAYEY, K.M.; SEMKIN, Ye.P.

Research data on sarkomycin and its analogues. Part 1: Synthesis of dihydrosarkomycin and its antipode. Zhur. ob. khim. 27 no.3:742-748 Mr 157. (MIRA 10:6)

1. Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR.

(Sarkomycin)

SHEMYAKIN, M.M.; RATUEL', G.A.; CHAMAN, Ye.S.; SHVETSOV, Yu.B.; VINOGRADOVA, Ye.I.

Synthesis of raceric sarkomycin. Izv. AN SSSR. Otd. khim. nauk no.8:1007 Ag '57.

1. Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR. (Sarkomycin)

(Sarkomycin)

CIA-RDP86-00513R001550410015-9 "APPROVED FOR RELEASE: 03/14/2001

SHVETSLY, Ya B. 5. 3.00,5.500,5.3510

AUTHORS:

Shemyakin, M. M., Ravdel', G. A., Chaman, E. S., Shvetsov, Yu. B., Vinogradova, E. I., Vdovina, R. G.,

Yermolayev, K. M., Bamdas, E. M.

TITLE:

Studies in the Field of Sarcomycine and Its Analogs. Communication 4. Study of Synthetic Routes to Sar-

comycine and Its Analogs

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh

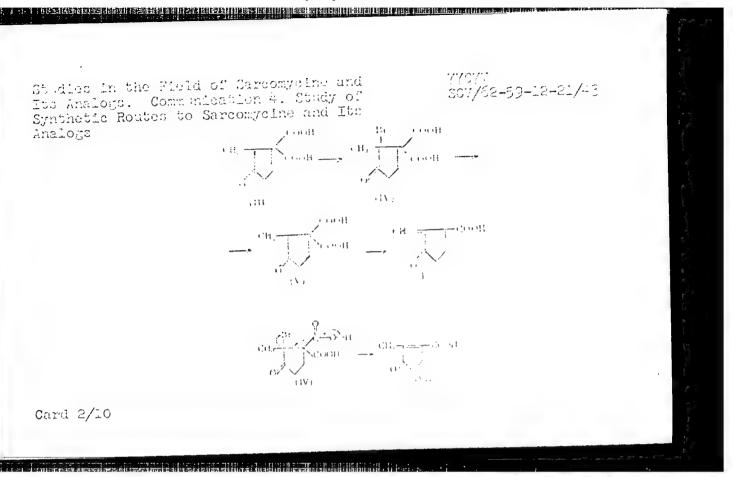
nauk, 1959, Nr 12, pp 2177-2187 (USSR)

ABSTRACT:

2-Methyleyclopentan-3-one-1,1-diearboxylie acid (III) was used for the preparation of (Sarcomycine) 2-methylene-cyclopentanone-3-carboxylic acid (I). (III) was assumed to be converted into (V) by bromination. It seemed possible to synthesize (I) from (V) by removal of HBr and by decarboxylation. Diacid (V) could not be obtained because elimination of HBr from (I/) and simultaneous decurboxylation formed (VI) with an

endocyclic double bond.

Card 1/10



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Studies in the Field of Sarcomycine and Its Analogs. Communication 4. Study of Synthetic Routes to Sarcomycine and Its

77077 SOV/62-59-12-21/43

Analogs

The semicarbazone of the diethyl ester of 2-methylcyclopentan-3-one-1,1-dicarboxylic acid (VIII) was brominated, and after eliminating HBr the semicarbazone of the diethyl ester of 2-methylenecyclopentan-3-one-1,1-dicarboxylic acid (X) was obtained in 56% yield (mp 207-209°). Diester (X) was saponified and the semicarbazone of the ethyl ester of 2-methylcyclopenten-1-one-3-carboxylic acid (XI) was obtained, in 74% yield (dec. temperature 220-230°).

Card 3/10

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001550410015-9"

Studies in the Field of Sarcomycine and Its Analogs. Communication 4. Study of Synthetic Routes to Sarcomycine and Its Analogs

77077 SOV/62-59-12-21/43

Attempts were made to convert the semicarbazone of the amide of 1-carbethoxy-2-methylcyclopentanene-3-carboxy-lic acid (XIV) into the semicarbazone of the amide of 1-carbethoxy-2-methylenecyclopentanone-3-carboxylic acid (XVI), but the isolated compound (XVI) was not pure and contained from 30 to 40% polymeric material.

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Studies in the Field of Sarcomycine and Its Analogs. Communication 4. Study of Synthetic Routes to Sarcomycine and Its Analogs

77077 S0V/62-59-12-21/43

Semicarbazone of the diethyl ester of 2-methylcyclo-pentan-2-olone-3-carboxylic acid (XVII) was obtained, in 81% yield (mp 160-161°), from (IX) by reaction with water. Semicarbazone of 2-methylcyclopentan-2-olone-3-carboxylic acid (XIX) was prepared in 38% yield (mp 187-188°) by saponification of (XVII) and by subsequent decarboxylation of the intermediate (XVIII).

$$\begin{array}{c|c} & \text{OH} & \text{COOH} \\ & & & \text{CH}_3 + \frac{1}{1} & \text{COOH} \\ & & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & &$$

Card 5/10

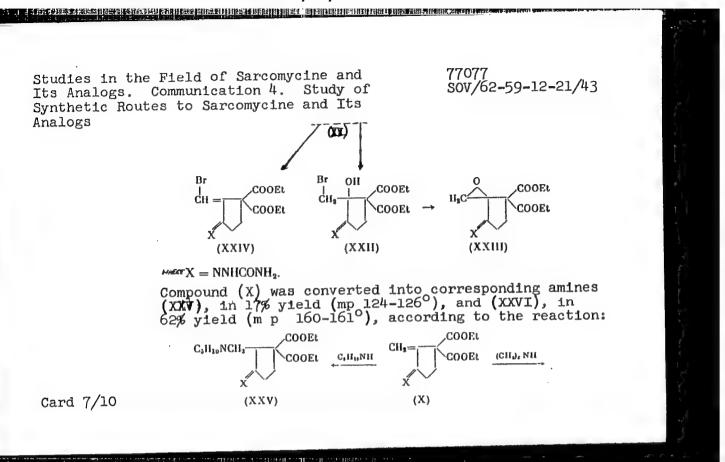
Studies in the Field of Sarcomycine and Its Analogs. Communication 4. Study of Synthetic Routes to Sarcomycine and Its Analogs

77077 s07/62-59-12-21/43

Dibromide (XX) was obtained quantitatively (mp 82-35° dec.) by addition of two bromine atoms to the diester (X). In the compound (XX) one bromine atom (position 2) is very labile. (XX) reacts with CH₃OH or H₂O forming corresponding compounds (XXI) in 65% yield (mp 138-139°) or (XXII) in 83% yield (mp 148-149°). The labile bromine atom in compound (XX) can quantitatively oxidize KI to free iodine, in the cold, but the obtained product can not be isolated, because the reaction is accompanied by elimination of HBr and formation of diester (X) in 71% yield (mp 207° dec.).

$$CH_{2} = \begin{array}{c|c} \hline COOEt \\ \hline X \\ \hline (X) \\ \hline \end{array} \begin{array}{c|c} Br_{2} \\ \hline COOEt \\ \hline \end{array} \begin{array}{c|c} Br_{2} \\ \hline CH_{2} \\ \hline \end{array} \begin{array}{c|c} Br_{3} \\ \hline COOEt \\ \hline \end{array} \begin{array}{c|c} Br_{4} \\ \hline COOEt \\ \hline \end{array} \begin{array}{c|c} Br_{4} \\ \hline COOEt \\ \hline \end{array} \begin{array}{c|c} COOEt \\ \hline X \\ \hline \end{array} \begin{array}{c|c} COOEt \\ \hline X \\ \hline \end{array} \begin{array}{c|c} COOEt \\ \hline X \\ \hline \end{array} \begin{array}{c|c} COOEt \\ \hline \end{array}$$

Card 6/10



Studies in the Field of Sarcomycine and Its Analogs. Communication 4. Study of Synthetic Routes to Sarcomycine and Its Analogs

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$$\rightarrow \begin{array}{c} (CH_3)_2NCH_3 \\ X \\ (XXVI) \end{array}$$

where $X = NNHCONH_2$.

Amine (XXVI) reacted with $(CH_3)_2SO_4$, in the presence of NaHCO₃, and diester (X) was obtained in 75% yield.

MoSO₄

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Studies in the Field of Sarcomycine and Its Analogs. Communication 4. Study of Synthetic Routes to Sarcomycine and Its Analogs

77077 SOV/62-59-12-21/43

WALL X = NNHCONH2.

The synthesis of (I) may take place as follows: amines of (XXV-XXVI)-type, after hydrolysis, decarboxylation, and formation of the methylene group, can be converted into (I). The results of investigation will be published in a forthcoming communication. There are 9 references, 3 Soviet, 1 German, 2 Japanese, 1 U.K., 2 U.S. The 3 U.S. and U.K. references are: Chem. and Industr. 1957, 1320; E. J. Corey, J. Amer. Chem. Soc. 75, 1163 (1953); J. R. Hooper, L. C. Cheney et al., Antibiot. and Chemother. 5, 585 (1955).

Card 9/10

Studies in the Field of Sarcomycine and Its Analogs. Communication 4. Study of Synthetic Routes to Sarcomycine and Its Analogs

77077 S0V/62-59-12-21/43

ASSOCIATION:

Institute of Biological and Medical Chemistry, Academy of Medical Sciences (Institut biologicheskiy i medit-sinskoy khimii Akademii medicinskhikh nauk)

SUBMITTED:

April 12, 1958; Additions made, December 28, 1958

Card 10/10

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77078 S0V/62-59-12-22/43

AUTHORS:

Shemyakin, M. M., Ravdel', G. A. Chaman, E. S., Shvet-

sov, Yu. B., Vinogradova, E. I.

TITLE:

Investigation in the Field of Sarcomycine and Its

Analogs. Communication 5. Synthesis of Racemic Sar-

comycine

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh

nauk, 1959, Nr 12, pp 2187-2194 (USSR)

ABSTRACT:

Racemic sarcomycine (III) was synthesized in the form of its semicarbazone (XVIII).

-соон (III)

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Investigation in the Field of Sarcomycine 77078 sov/62-59-12-22/43 and Its Analogs. Communication 5. Synthesis Sov/62-59-12-22/43 of Racemic Sarcomycine New York COOH CH3-COOH (XIX)

 $X = NNHCONH_2$

The ethyl ester of 2-dimethylaminomethylcyclopentanone-3-carboxylic acid (XI) was used as starting material for the preparation of (III). Racemic sarcomycine in the form of its semicarbazone (XVII) can be obtained, in 39% yield, from the methiodide of acid (XV) or from betaine (XIV) together with the semicarbazone of 2-methylcyclopenten-1-one-3-carboxylic acid (XIX). For

Card 2/4

Investigation in the Field of Sarcomycine and Its Analogs. Communication 5. Synthesis of Racemic Sarcomycine

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this purpose (XV) or (XIV) is heated on a water bath for 4 minutes with 2 moles (for betaine 1 mole) of 1N NaOH. The solution was cooled to 0-20, 10% HCl was added, and after 30 minutes the precipitate was removed by filtration and washed with cold water. The mixture of (XVIII) and (XIX) was obtained in 39% yield. The compound turns black on heating, but does not melt. Found: C 48.87%; H 6.02%. C3H1103N3. Calculated: 48.75%; H 5.63%. From the above mixture, the semicarbazone of racemic sarcomycine (XVIII) was isolated by crystallization, in 50-55% yield. There are 8 references, 3 Soviet, 1 Japanese, 1 U.K., 3 U.S. The 4 U.S. and U.K. reference: are: Chem. and Industr. 1957, 1320. G. Buchi, N. G. Yang and Others, Chem. and Industr. 1953, 1063; J. Meinwald, S. L. Emerman and others., J. Amer. Chem. Soc. 77, 4401 (1955); E. E. Van Tamelen, S. R. Bach, J. Amer. Chem. Soc. 77, 4683 (1955).

Card 5/4

Investigation in the Field of Sarcomycine and Its Analogs. Communication 5. Synthesis of Racemie Sarcomycine

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37077 507/62-59-12-22/43

ASSOCIATION:

Institute of Biological and Medical Chemistry, Academy of Medical Sciences (Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk)

SUBMITTED:

April 12, 1958; Additions made, December 28, 1958

Card 4/4

SHCHUKINA, L.A.; VDOVIHA, R.G.; SHVETSOV, Yu.B.; KARPOVA, A.V.

Preparative method of production of (- and 9 -/ -hydroxylsovaleric acid. Izv. AN SSSR Otd.khim.nauk no.2:310-312 F 162.

(MIRA 15:2)

1. Institut khimli prirodnykh soyedineniy AN SSSR i Institut biologicheskoy i meditsinskoy khimli AMN SSSR.

(Isovaleric acid)

KOLOSOV, M.N.; GUREVICH, A.I.; SHVETSOV, Yu.B.

THE STATE OF THE PROPERTY OF T

Tetracyclines. Report no.17:Asymmetrical synthesis of (-)-3-methyl-phthalide-3-carboxylic acid. Izw. AN SSSR. Otd.khim. nauk no.4:701-705 (MIRA 16:3)

1. Institut khimii prirodnykh soyedineniy AN SSSR. (Phthalidecarboxylic acid)